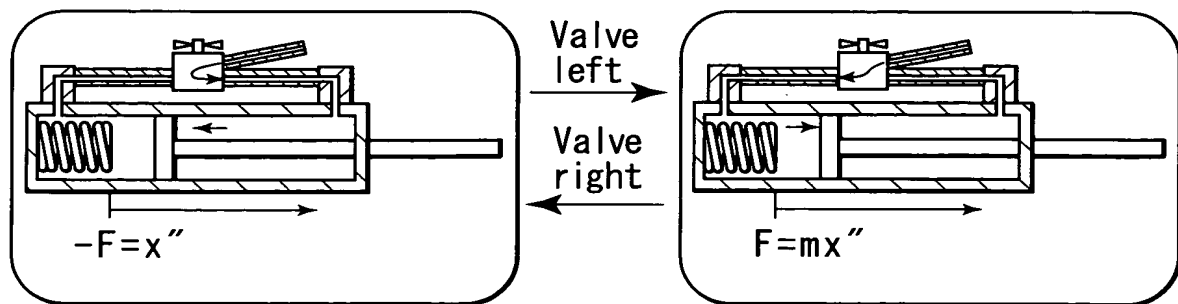
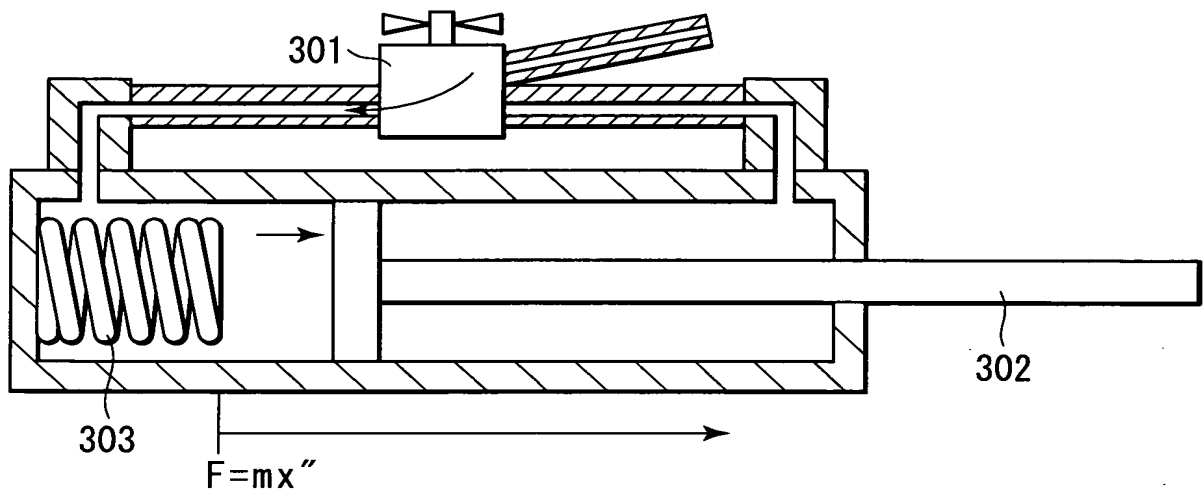
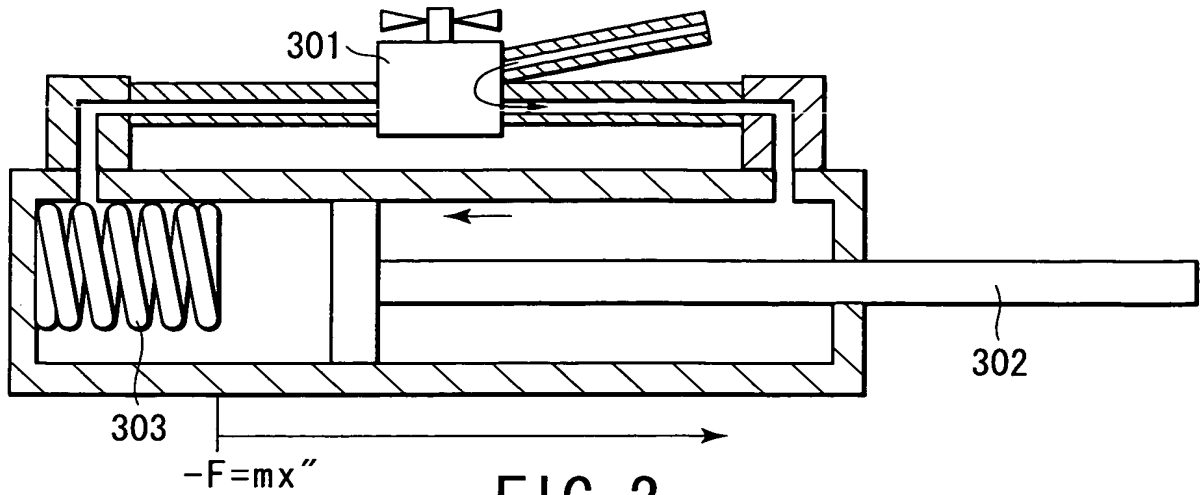


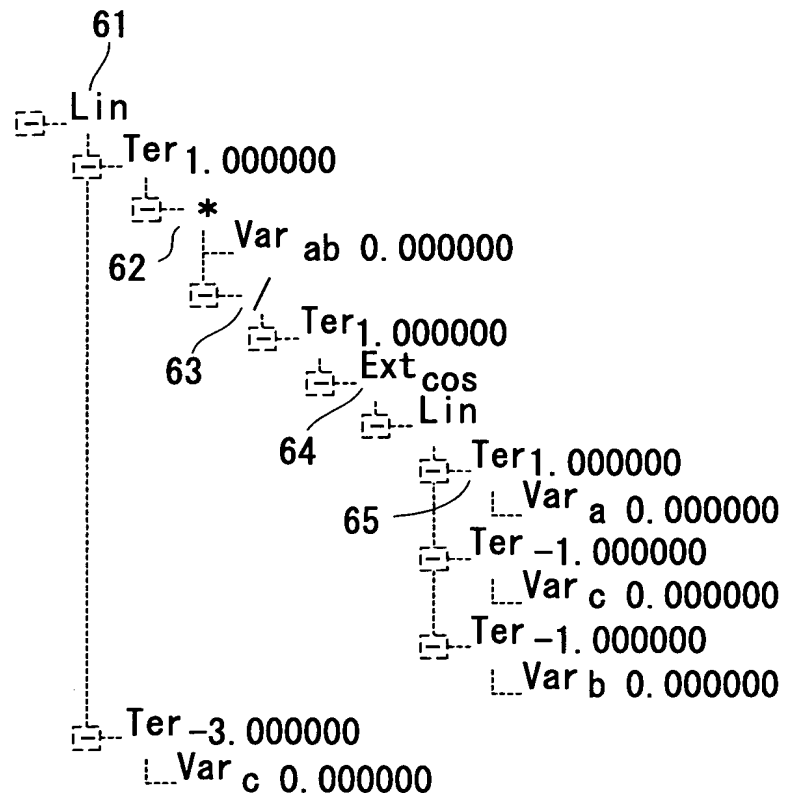
FIG. 1



| | |
|-----|--|
| L1 | #define m 1 |
| L2 | #define f 100 |
| L3 | Right, ^{ev1} // Initial state of valve |
| L4 | wait 50 do Left, ^{ev2} // Turn valve to right when time = 50. |
| L5 | // Conditional formula when valve faces right |
| L6 | always if Left then do always f = m * x" ^{eq1} watching Right, |
| L7 | // Conditional formula when valve faces left |
| L8 | always if Right then do always -f = m * x" ^{eq2} watching Left, |
| L9 | sample (X), ^{ev4} |
| L10 | x = 0, x' = 0 // Initial state of variable x |

FIG. 5

FIG. 6



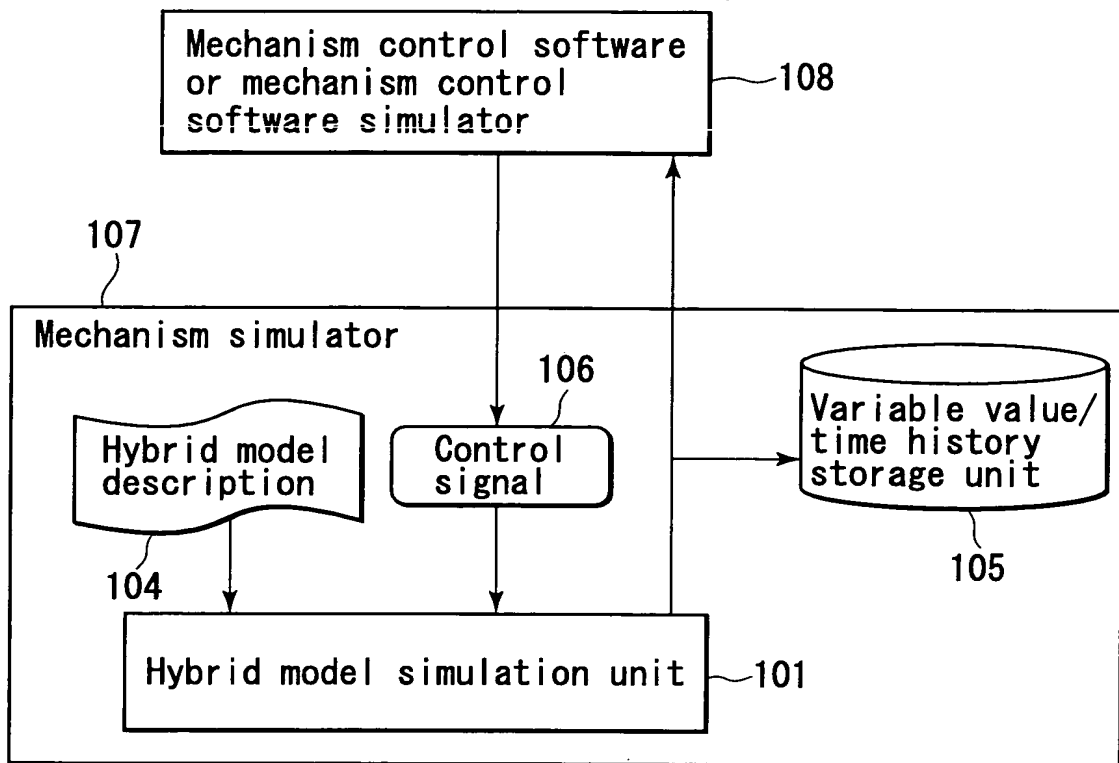


FIG. 7

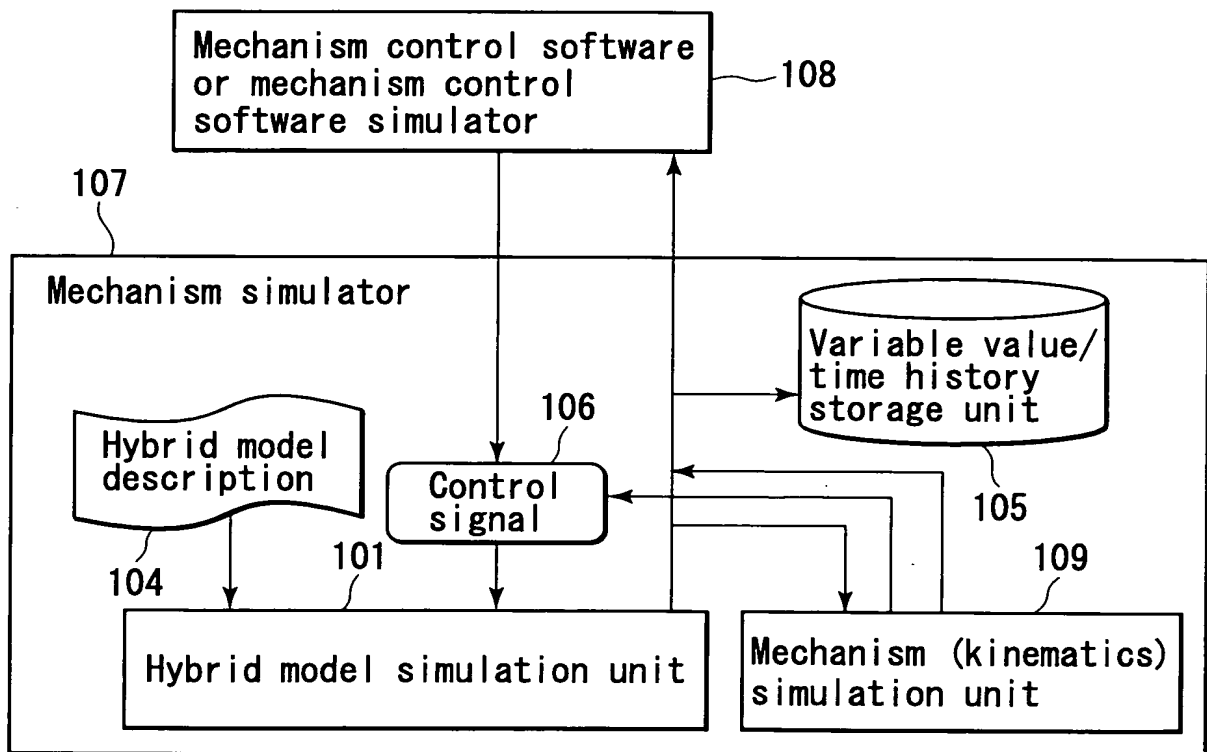


FIG. 8

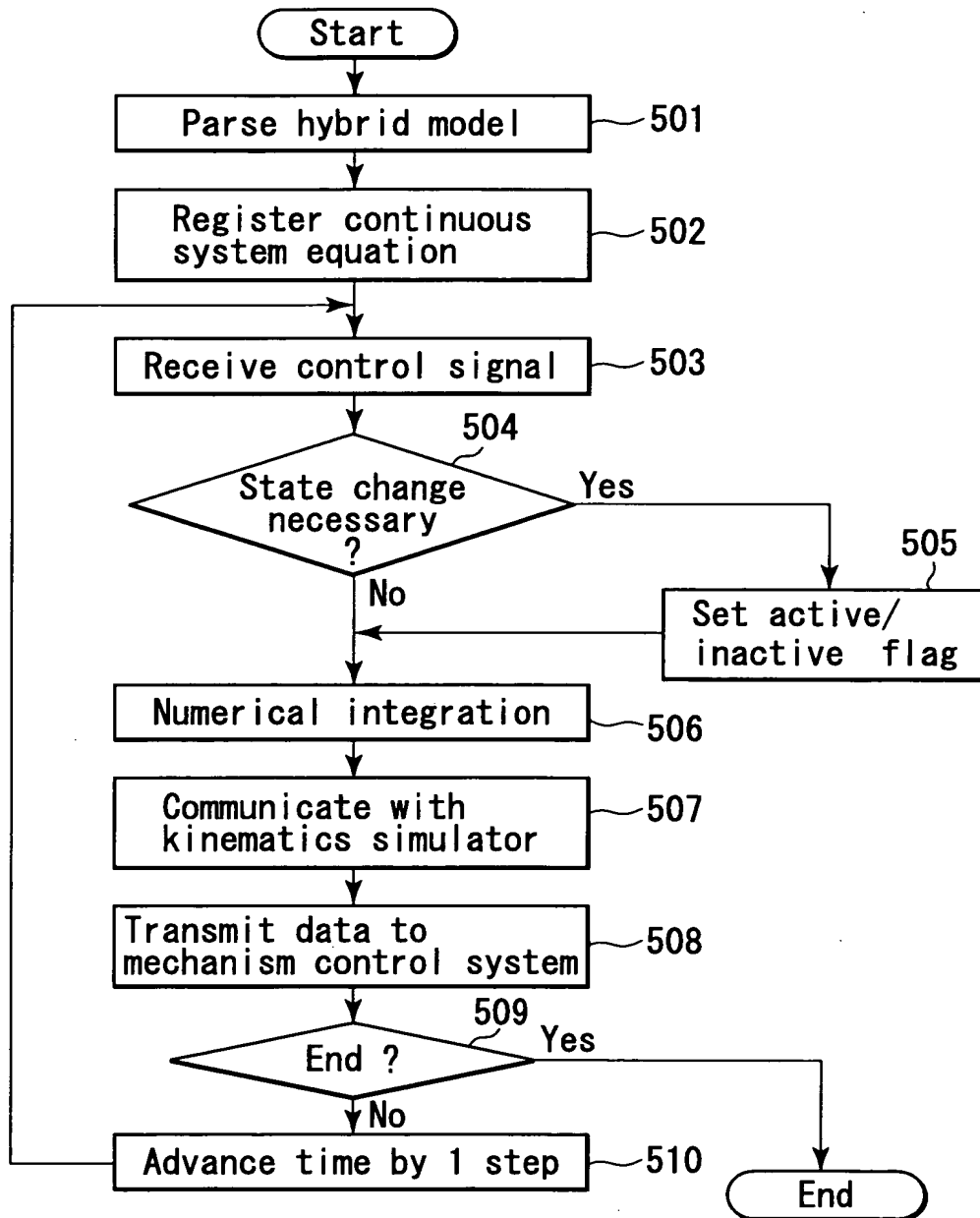


FIG. 9

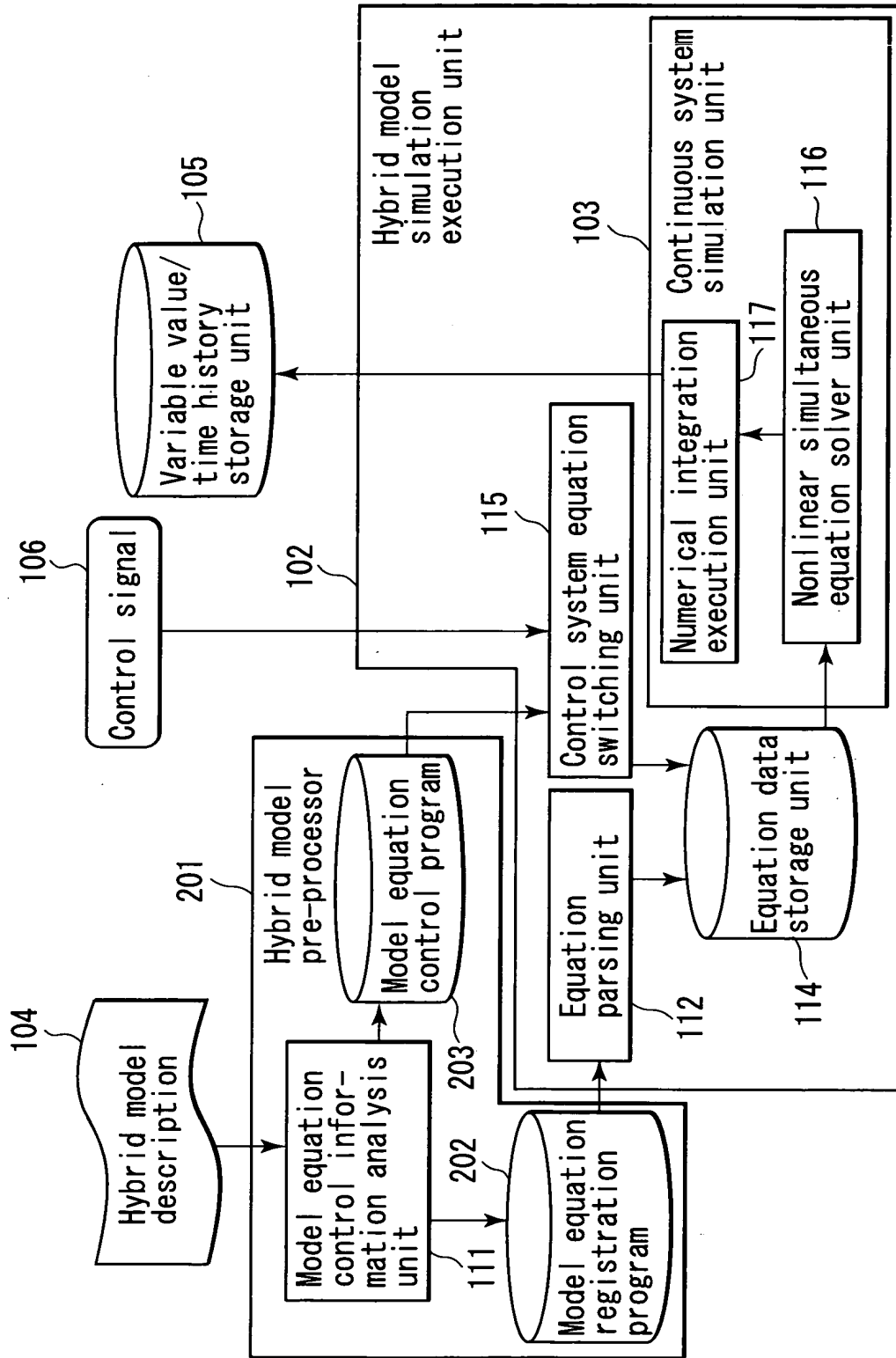


FIG. 10